## EXHIBIT 10

		nt 33014 221684	
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1 2	IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY	3	On behalf of the Defendant, Johnson & Johnson and Johnson & Johnson Consumer Inc.:
3		5	ALEV V. CHACHKES, Eco
4	IN RE: JOHNSON & JOHNSON )	3	ALEX V. CHACHKES, Esq. NINA TROVATO, Esq.
5	TALCUM POWDER PRODUCTS ) MARKETING SALES )	6	Orrick, Herrington & Sutcliffe, LLP 51 West 52nd Street
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14		13	On behalf of the Defendant,
15	February 5, 2019	14	Imerys Talc America, Inc.:
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1	APPEARANCES OF COUNSEL		AFFLARANCES OF COUNSEL (Continued)
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3	LEE CIRSCH, Esq.	4	Imerys Talc America, Inc.:  ROBERT A. RICH, Esq.
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	Case 3:16-md-02738-MAS-RLS Documer	nt 33014	<del>-10 Filed 07/23/24 Page 3 of 14</del>
	<sup>41</sup> PageID:		
11:00:43	<b>A.</b> No, sir. It's not the type of information	11:03:09	I'd have to look at them and see what the validation
11:00:45 2	I would typically put in a report.	11:03:13 2	is. We have cummingtonite standards now. We have
11:00:47 3	<b>Q.</b> Do you know which set of NIST standards	11:03:17 3	grunerite standards. We have I believe we have
11:00:53	exist at MAS right now?	11:03:21 4	winchite and richterite standards. We have not
11:00:56 5	<b>A.</b> It is the 1875, I think it is. I have to	11:03:25 5	analyzed them yet to the degree where we can put the
11:01:02 6	check the numbers on it. It's the standard NIST	11:03:28 6	results altogether.
11:01:05 7	samples that all asbestos labs have or should have.	11:03:28 7	Q. So are these so I'm talking about
11:01:09	<b>Q.</b> Do you know when you obtained them?	11:03:31	reference standards that you can look at those and
11:01:11 9	A. Not as I sit here today.	11:03:35	compare to what you're generating in this case. So
11:01:13 10	<b>Q.</b> Did your analyst compare any of the	11:03:39 10	you're saying that there are third-party
11:01:15 11	particles identified in this report by TEM with any	11:03:41 11	anthophyllite standards that you have that were
11:01:19 12	known asbestos reference samples?	11:03:45 12	produced by something in Windsor County?
11:01:21 13	<b>A.</b> Well, we have analyzed both reference	11:03:48 13	MR. CIRSCH: Object to form.
11:01:30 14	tremolite series, anthophyllite series. We have all	11:03:49 14	THE WITNESS: It wasn't produced by
11:01:33 15	those reference standards, analytical data on the TEM	11:03:50 15	Windsor County. It was a mineral house that
11:01:39 16	walls. I don't think they pulled the reference and	11:03:57 16	sells them. And I have not had an opportunity
11:01:43 17	put them in each and every time, but they routinely	11:04:01 17	to we haven't had an opportunity to look at
11:01:47 18	check reference samples.	11:04:03 18	them yet.
11:01:49 19	Q. Okay. So when you say they check	11:04:03 19	Q. (By Mr. Chachkes) That's just the
11:01:51 20	reference samples, are you saying you mean that they	11:04:05 20	mineral, though, right, the raw mineral?
11:01:53 21	check to whatever's on your reference wall?	11:04:07 21	MR. CIRSCH: Object to form.
11:01:56 22	MR. CIRSCH: Object to form.	11:04:08 22	THE WITNESS: Well, it's fibrous, it's raw
11:01:57 23	THE WITNESS: Well, no. The reference	11:04:11 23	mineral anthophyllite, raw mineral
11:01:58 24	wall is from the reference samples, and we have	11:04:15 24	cummingtonite, raw mineral grunerite, raw
11:02:01 <b>25</b>	analyzed reference samples in the past	11:04:18 <b>25</b>	mineral winchite-richterite.
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11:02:03 1	specifically for these J&J cases. And the	11:04:22 1	Q. (By Mr. Chachkes) Okay. For those
11:02:08 2	specifically for these J&J cases. And the analysts are well trained.	11:04:22 2	Q. (By Mr. Chachkes) Okay. For those minerals that you just mentioned, did you obtain from
11:02:08 <b>2</b> 11:02:10 <b>3</b>	specifically for these J&J cases. And the analysts are well trained.  I don't know how often they need to pull	11:04:22 <b>2</b> 11:04:24 <b>3</b>	Q. (By Mr. Chachkes) Okay. For those minerals that you just mentioned, did you obtain from a third party a TEM photo of the mineral at issue
11:02:08 <b>2</b> 11:02:10 <b>3</b> 11:02:12 <b>4</b>	specifically for these J&J cases. And the analysts are well trained.  I don't know how often they need to pull out a reference sample in order to identify	11:04:22 <b>2</b> 11:04:24 <b>3</b> 11:04:31 <b>4</b>	Q. (By Mr. Chachkes) Okay. For those minerals that you just mentioned, did you obtain from a third party a TEM photo of the mineral at issue that you can use as a standard to compare what you
11:02:08 <b>2</b> 11:02:10 <b>3</b> 11:02:12 <b>4</b> 11:02:14 <b>5</b>	specifically for these J&J cases. And the analysts are well trained.  I don't know how often they need to pull out a reference sample in order to identify either the anthophyllite solid solution series	11:04:22 <b>2</b> 11:04:24 <b>3</b> 11:04:31 <b>4</b> 11:04:34 <b>5</b>	Q. (By Mr. Chachkes) Okay. For those minerals that you just mentioned, did you obtain from a third party a TEM photo of the mineral at issue that you can use as a standard to compare what you find under your TEM?
11:02:08 <b>2</b> 11:02:10 <b>3</b> 11:02:12 <b>4</b> 11:02:14 <b>5</b> 11:02:17 <b>6</b>	specifically for these J&J cases. And the analysts are well trained.  I don't know how often they need to pull out a reference sample in order to identify either the anthophyllite solid solution series or the tremolite solid solution series.	11:04:22 <b>2</b> 11:04:24 <b>3</b> 11:04:31 <b>4</b> 11:04:34 <b>5</b> 11:04:36 <b>6</b>	Q. (By Mr. Chachkes) Okay. For those minerals that you just mentioned, did you obtain from a third party a TEM photo of the mineral at issue that you can use as a standard to compare what you find under your TEM?  MR. CIRSCH: Object to form.
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Page 5 of 14 <del>ocumer</del> <del>-Filed 07/23/24</del> <del>33014-10</del> **PageID** 221687 1 MR. CIRSCH: Object to form. 11:18:19 11:20:48 synonymously in your report? 2 THE WITNESS: I don't have any 2 I think all ours say EDXA. EDS is old 11:18:20 11:20:50 3 3 expectations. The analyst is ultimately making school. They're both the same technique: energy 11:20:54 11:18:21 4 the decision if it is a single fiber or a 11:20:56 4 dispersive spectroscopy or energy dispersive x-ray 11:18:24 5 5 bundle. Because he's looking in the microscope, spectroscopy 11:18:28 11:21:00 6 he's the one who can -- you're looking through 6 Do you expect all the samples from a Q. 11:21:00 11:18:31 7 the fiber, he's the one doing the -- he can 11:21:01 7 single mine, for example, the cosmetic talc from 11:18:34 change the focal plane, he can change from dark 8 J&J's Vermont mine, to have similar SAED patterns? 8 11:21:08 9 field to bright field, so ultimately he's making 9 Depending on the orientation of the 11:21:15 11:18:42 10 the decision on it. 11:21:18 10 crystal and depending on what the material is. 11:18:44 11:18:46 11 Q. (By Mr. Chachkes) I am asking really what 11:21:22 11 Tremolite, winchite, richterite, 12 is the margin of error in detecting fiber versus actinolite typically have similar, but the 11:21:27 12 13 bundle percentage, acceptable margin of error. Have 11:21:30 13 anthophyllite solid solution series, especially from you ever figured that out? 11:21:34 14 Vermont where you can have no iron, iron-rich, 14 11:18:57 11:18:58 15 11:21:38 15 cummingtonite, high-iron cummingtonite, and actually We haven't done that; it's really not 11:19:00 16 necessary. It's more important for coefficients of 11:21:43 16 going to grunerite, those will have different 17 variation. I've reviewed all the photographs of 11:21:46 17 reflections because you're going from orthorhombic to 18 fibers and bundles. I would say 95, 98 percent of 11:21:49 18 monoclinic. 11:19:07 11:19:14 19 them I agree with. There's a couple percent in there 11:21:50 19 Q. So would you expect all the samples from a 11:21:53 20 11:19:18 20 that you have to leave it up to the analyst to make single mine to have the same concentration of 11:19:21 **21** 11:21:57 21 that decision. ashestos? 11:19:22 **22** Q. Would you expect an analyst in your lab 11:21:58 22 A. No. 11:19:25 23 and an analyst in Lee Poye's lab to get the same 11:21:59 23 Q. Why not? 11:19:29 24 results for a particular bottle? Is it the same 11:22:00 24 Α. Because you're dealing with accessory 11:19:32 **25** 11:22:02 **25** answer as I've been getting with two analysts in your minerals. It just depends on where it's being dug Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 58 60 1 lah? 1 out of the mine. 11:22:07 11:19:34 2 2 MR. CIRSCH: Object to form. 11:22:07 Would you expect all the samples from a 3 THE WITNESS: Yes. I would expect, 3 single mine to have the same fiber versus bundle 11:19:36 11:22:10 4 depending on what the count is or how many 11:22:14 11:19:38 5 fibers, if it's not in the margin of error, that 5 Α. Not necessarily. All these materials are 11:19:41 11:22:15 milled, and you're dealing with an asbestos type 6 we would verify that it's same bottle as 6 11:19:44 11:22:18 7 7 positive. But other than that, I would have to tremolite-anthophyllite that's brittle. So I don't 11:22:21 11:19:47 8 see the data to see. 11-22-26 8 know if I would expect to see the same bundles to 11:19:51 9 (By Mr. Chachkes) When you say -- when 11:19:52 11:22:30 you say it's not within the margin of error, what's 11:22:30 10 10 And of course you're also dealing with the 11:19:55 11 the quantification of that margin of error? 11:22:33 11 microscopist who has to make that final decision, the 11:19:58 11:20:00 12 I think our analysts have a margin of 11:22:36 12 TEM microscopist, if it's a single fiber or bundle. 13 error on coefficient of variation somewhere in the 6 11:22:40 13 What we try to make sure happens is that 11:20:02 14 to 7 percent range. So one lab finding one fiber or 11:22:44 14 every asbestos fiber or bundle we identify meets the 11:20:03 15 maybe two fibers, another lab finding zero or finding 11:22:49 15 11:20:07 counting criteria for a regulated asbestos fiber or 11:22:53 16 11:20:10 16 four, I don't have any issue with that. bundle as per the TEM methods, both ISO, ASTM. 17 Would you expect the samples, the various 11:22:59 17 That's the most important thing 11:20:14 11:20:23 18 bottles from a single mine, like all the bottles from 11:23:01 18 And then we try to also get some 19 J&J talc from Vermont, cosmetic talc from the Vermont 11:23:03 19 consistency on whether it's bundles or fibers. But 11:20:26 11:20:31 20 mine, to have roughly the same EDS spectra? 11:23:08 20 that's what we strive for, is following the protocol, 11:20:36 **21** 11:23:12 21 MR. CIRSCH: Object to form. following the standard counting rules, and 11:20:38 **22** THE WITNESS: Depending on the type of 11:23:15 22 identification. 11:20:39 **23** asbestos, yes. 11:23:16 23 Hypothetically, if one of your researchers 11:23:21 24 11:20:39 24 (By Mr. Chachkes) Okay. By the way, I've analyzed 150 different samples from a single mine and 11:23:25 25 11:20:43 25 seen EDXA; I've seen EDS. Do you use those another researcher analyzed those same 150 samples, Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com

<del>: 33014-10</del> Filed 07/23/24 <del>ocumer</del> PageID 221688 1 MR. CIRSCH: Object to form. 11:49:22 Q. Microns, I'm sorry. THE WITNESS: I doubt he's looking at when 2 2 Micrometers. Δ 11:49:23 11:52:06 he takes a spectra of either tremolite series or 3 3 Q. Okay. So strike that. 11:52:06 11:49:25 4 anthophyllite series that he's turning over and 11:52:08 4 If your analyst sees something that's 11:49:28 looking at a known reference. These analysts 5 greater than .5 micrometers and has an aspect ratio 5 11:49:31 11:52:11 6 have been doing this for years and years and 6 of at least 5-to-1, then he might do EDXA? 11:52:14 11:49:34 7 years. 7 If it has parallel sides, yes. And he may 11:52:18 11:49:37 8 8 We have references, but I can't imagine do SAED. It doesn't matter which one. But then he 11:52:25 9 every time he takes an EDX spectra that looks 9 would have to go through the sequence of determining 11:52:29 11:49:43 10 the same time after time after time that he's 11:52:31 10 if it meets the definition for the regulated asbestos 11:49:47 11:49:49 11 looking at a third-party reference at that chemistry and the crystalline structure. 11:52:35 11 12 particular point in time. 11:52:37 12 Are there minerals that exist in the world 13 (By Mr. Chachkes) Okay. How many 11:52:40 13 other than regulated particles, regulated asbestos different analysts do you have doing EDXA spectra? particles, that are greater than .5 micrometers and 14 11:52:44 14 11:49:56 15 11:52:50 15 can have an aspect ratio of greater than 5-to-1? A. Four 11:49:59 11:49:59 16 O Does NIST have an EDXA reference spectra 11:52:53 16 MR. CIRSCH: Object to form. 17 for the various asbestos? 11:52:54 17 (By Mr. Chachkes) And with parallel 18 MR. CIRSCH: Object to form. 11:52:56 18 sides? 11:50:11 11:50:12 19 THE WITNESS: I think you already asked 11:52:56 19 A. Yes. 11:50:14 20 that. And besides not having a -- providing a 11:52:56 20 O Potentially dozens if not hundreds; right? 11:50:16 21 TEM photo, they do not provide an actual 11:53:01 21 I haven't counted them all up. But what A. 11:50:22 **22** spectra. But I think most -- I think there's a 11:53:04 22 we potentially see is asbestiform talc bundles or 11:53:08 23 11:50:26 23 number of third-party references I believe just fibers all the time. So, yeah, you have to 11:50:28 24 give you the ratios of what you would see in 11:53:12 24 distinguish between a talc fiber or bundle and an 11:50:31 **25** 11:53:17 25 anthophyllite fiber or bundle. EDXA for the magnesium, the silicon, the Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 1 1 calcium, potentially some iron, tremolite, or The question really is about minerals, so 11:53:18 11:50:37 2 actinolite. 11:53:20 2 let's focus on what I've just asked, which is: There 3 Q. (By Mr. Chachkes) Why is EDXA useful? 3 are potentially dozens if not hundreds of minerals 11:50:43 11:53:25 that can have parallel sides, that can have -- be Provides the inorganic, and depending on 4 11:53:29 11:50:47 bigger than .5 micrometers, and have aspect ratios 5 your detector, organic chemistry of any particular 5 11:50:52 11:53:34 6 6 elongated particulate. that are 5-to-1 or greater? 11:50:56 11:53:37 7 7 MR. CIRSCH: Object to form. When you look at an EDXA spectra, do you 11:50:58 8 assume it's a regulated particle and then look to 11:53:40 8 THE WITNESS: And I apologize, but I just 11:51:03 which regulated particles have the metal-to-silicon 9 stated I haven't counted them up. And really, 9 11:53:42 11:51:07 10 ratio that correspond? 11:53:46 10 we're not interested in the hundreds or whatever 11-51-11 11:51:14 11 MR. CIRSCH: Object to form. 11:53:47 11 it is around the world. 11:51:15 12 THE WITNESS: Well, we typically don't do 11:53:49 12 It's primarily what do we find in the talc 13 an EDX spectra unless it meets the definition of 11:53:55 13 deposits that are asbestiform or fibrous and 11:51:18 14 a regulated -- it has the potential for a 11:54:00 14 meet those definitions. And typically the only 11:51:22 11:54:04 15 11:51:27 15 thing we routinely see is fibrous talc. Every regulated asbestos fiber or bundle. 11:54:10 16 11:51:29 16 So it's got to be at least .5 micrometers now and then an antigorite fiber may show up. 17 in length or greater, it's got to have an equal 11:54:16 17 But I don't -- to answer your question you 11:51:33 11:54:19 18 11:51:36 18 to -- greater than or equal to 5-to-1 aspect asked, I haven't counted how many are out there. 19 ratio, and parallel sides. Then the analyst --11:54:21 19 (By Mr. Chachkes) Does MAS conduct 11:51:41 11:51:46 20 first thing I would assume is do EDXA and check 11:54:24 20 qualitative EDS analysis or quantitative EDS 11:51:50 **21** 11:54:27 21 the chemistry. And then SAED. analysis? 11:51:55 22 (By Mr. Chachkes) If your analyst sees 11:54:28 22 I believe every spectra in here is 11:51:58 23 something that's, what did you say, greater than .55 11:54:31 23 quantitative EDS analysis. 11:52:04 24 11:54:33 24 millimeters? So you actually calculate the peak sizes 11:52:05 **25** 11:54:36 25 A. and do the math? Microns. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com

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13:40:12	a graduate school?	221689	<b>A.</b> Yes. Some people contributed, but I was
13:40:14	<b>A.</b> Not in this type of work, no.	13:42:22 <b>2</b>	in charge of it was our method that we had given
13:40:16 3	Q. Okay. In what type of work?	13:42:25	to the EPA. Then it was fighting over the
13:40:19 4	A. Well, I was visiting assistant professor,	13:42:30 4	definitions.
13:40:21 <b>5</b>	so it would have been materials science.	13:42:31 <b>5</b>	Q. Have you or MAS published any standard for
13:40:23 6	Q. Okay. Nothing to do with detecting	13:42:35 6	finding asbestos in any material or any mineral or
13:40:24 7	asbestos?	13:42:39 7	anywhere that is attributable exclusively to you or
13:40:25	<b>A.</b> No.	13:42:43 <b>8</b>	MAS?
13:40:25	Q. Do you know McCrone's Particle Atlas?	13:42:43 <b>9</b>	<b>A.</b> No.
13:40:28 10	A. Yes.	13:42:44 10	Q. Have you published a methodology for
13:40:28 11	<b>Q.</b> And that's something folks other than	13:42:55 11	finding asbestos in talc?
13:40:31 12	McCrone use as a standard in this field?	13:42:57 12	A. Have not.
13:40:36 13	A. Yes.	13:42:59 13	Q. You're aware that McCrone has done that;
13:40:36 14	<b>Q.</b> Have you ever published anything that	13:43:01 14	right?
13:40:39 15	other people outside of your lab use as a standard?	13:43:01 15	MR. CIRSCH: Object to form.
13:40:43 16	MR. CIRSCH: Object to form.	13:43:02 16	THE WITNESS: Jim Millette, yes, I'm
13:40:45 17	THE WITNESS: Not in a book, no.	13:43:05 17	aware, 1990 and 2015, I believe, are the two
13:40:47 18	<b>Q.</b> (By Mr. Chachkes) What about otherwise?	13:43:09 18	papers in Microscopy.
13:40:50 19	A. Yes, if you go to Federal Mogul's and	13:43:10 19	Q. (By Mr. Chachkes) You're aware that
13:40:54 <b>20</b>	search for wollastonite detection, one of our	13:43:11 20	McCrone has testing and training classes related to
13:40:58 21	protocols was published by them for the determination $% \left( 1\right) =\left( 1\right) \left( 1\right)$	13:43:14 <b>21</b>	finding asbestos; correct?
13:41:02 <b>22</b>	of tremolite asbestos in wollastonite for Federal	13:43:15 22	MR. CIRSCH: Object to form.
13:41:07 23	Mogul involving their manufacture of OEM brakes.	13:43:16 23	THE WITNESS: They teach a used to,
13:41:11 24	<b>Q.</b> What is Federal Mogul? I'm not familiar	13:43:19 <b>24</b>	anyway, the McCrone Institute. May still do it.
13:41:12 <b>25</b>	with that.	13:43:25 <b>25</b>	<b>Q</b> . (By Mr. Chachkes) Have you ever taught or
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	110		112
13:41:12 1	A. It's a company that owns a bunch of	13:43:30 1	trained sponsored teaching or training classes for
13:41:14 <b>2</b>	companies.  Q. Okay. So you published I'm sorry, say	13:43:34 <b>2</b> 13:43:36 <b>3</b>	finding asbestos for people outside of MAS?  A. I've given a couple lectures and taught an
13:41:14 <b>3</b> 13:41:20 <b>4</b>	it again. What does it stand for?	13:43:36 <b>3</b> 13:43:39 <b>4</b>	all-day two-day seminar at the American Industrial
13:41:20 4	<b>A.</b> Well, I didn't publish it. We wrote a	13:43:39 4	Hygiene Association to help train, to give certified
13:41:25 6	protocol for determining a problem they were having	13:43:44 6	industrial hygienists or industrial hygienists how to
13:41:29 7	with the supplier of a mineral called wollastonite,	13:43:51 7	perform TEM analysis for asbestos.
13:41:29	which is a substitute fibrous material, and the	13:43:54	Q. Okay. Other than that, any?
13:41:31	particular source that they were using stated that it	13:43:57	A. At Georgia Tech in their continuing
13:41:36 10			A. At occupia recir in their continuing
13:41:36	had a small amount of tremolite contamination in it.	13:44:00 10	
13:41:38 11	Q. Okay. Did you ever published a standard	13:44:00 <b>10</b> 13:44:08 <b>11</b>	education program involving asbestos, seminar up at Southern University of New York, I have taught there
			education program involving asbestos, seminar up at
13:41:38 11	<b>Q.</b> Okay. Did you ever published a standard	13:44:08 11	education program involving asbestos, seminar up at Southern University of New York, I have taught there
13:41:38 <b>11</b> 13:41:40 <b>12</b>	<b>Q.</b> Okay. Did you ever published a standard for finding asbestos that was for the general	13:44:08 <b>11</b> 13:44:13 <b>12</b>	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.
13:41:38 <b>11</b> 13:41:40 <b>12</b> 13:41:44 <b>13</b>	<b>Q.</b> Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific	13:44:08 <b>11</b> 13:44:13 <b>12</b> 13:44:19 <b>13</b>	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos
13:41:38	<b>Q.</b> Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?	13:44:08	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?
13:41:38	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16 13:41:52 17	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis of	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16 13:41:52 17 13:41:57 18	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis of number count analysis of asbestos in settled	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:36 18	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:50 16 13:41:52 17 13:41:57 18 13:42:01 19	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis of number count analysis of asbestos in settled dust. It's the D5755, I believe it is.	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:36 18 13:44:39 19	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?  A. No.
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16 13:41:51 17 13:41:52 17 13:41:52 17 13:42:01 19 13:42:05 20	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis ofnumber count analysis of asbestos in settled dust. It's the D5755, I believe it is.  Q. (By Mr. Chachkes) Okay. And that has	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:36 18 13:44:39 19 13:44:39 20	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?  A. No.  Q. Has any School of Public Health asked you
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16 13:41:52 17 13:41:57 18 13:42:01 19 13:42:05 20 13:42:08 21	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis of number count analysis of asbestos in settled dust. It's the D5755, I believe it is.  Q. (By Mr. Chachkes) Okay. And that has your name on it?	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:30 18 13:44:39 20 13:44:43 21	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?  A. No.  Q. Has any School of Public Health asked you to assist them in finding asbestos in talc?
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:50 16 13:41:52 17 13:41:57 18 13:42:01 19 13:42:05 20 13:42:08 21 13:42:09 22	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis of number count analysis of asbestos in settled dust. It's the D5755, I believe it is.  Q. (By Mr. Chachkes) Okay. And that has your name on it?  A. No. ASTM standards have ASTM on it.	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:36 18 13:44:39 19 13:44:39 20 13:44:43 21 13:44:46 22	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?  A. No.  Q. Has any School of Public Health asked you to assist them in finding asbestos in talc?  A. No.
13:41:38 11 13:41:40 12 13:41:44 13 13:41:49 14 13:41:49 15 13:41:50 16 13:41:52 17 13:41:57 18 13:42:01 19 13:42:05 20 13:42:08 21 13:42:09 22 13:42:13 23	Q. Okay. Did you ever published a standard for finding asbestos that was for the general scientific community, not for just one specific client?  MR. CIRSCH: Object to form.  THE WITNESS: I was in charge of the ASTM and the D2205 committee for the analysis ofnumber count analysis of asbestos in settled dust. It's the D5755, I believe it is.  Q. (By Mr. Chachkes) Okay. And that has your name on it?  A. No. ASTM standards have ASTM on it.  Q. Okay. And that was that standard	13:44:08 11 13:44:13 12 13:44:19 13 13:44:24 14 13:44:25 15 13:44:28 16 13:44:30 17 13:44:36 18 13:44:39 19 13:44:39 20 13:44:43 21 13:44:46 22 13:44:47 23	education program involving asbestos, seminar up at Southern University of New York, I have taught there for a week. Again, it was TEM analysis for asbestos.  Q. Okay. Was it for finding talc, asbestos in talc?  A. No, it was just general finding asbestos in whatever you wanted to look in.  Q. Have you or MAS given any training or classes relating to finding asbestos in talc?  A. No.  Q. Has any School of Public Health asked you to assist them in finding asbestos in talc?  A. No.  Q. You're aware that a number of governmental

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13:44:58	asbestos is in cosmetic talc; correct?	221690 13:47:13 <b>1</b>	specific one for joint compound or a specific one for
	MR. CIRSCH: Object to form.	_	thermal insulation. It's just a matter of being able
13:45:01 <b>Z</b>	THE WITNESS: I'm aware of Canada and	13:47:17 <b>2</b> 13:47:23 <b>3</b>	to determine and detect and to record what is
13:45:02 4	maybe India, maybe. I've seen some articles.	13:47:27 4	present.
13:45:07 5	Q. (By Mr. Chachkes) Okay. Have any of	13:47:28 <b>5</b>	Q. Okay. Does the NVLA have an accreditation
13:45:07	those any governmental body, U.S. or otherwise,	13:47:33	standard for finding talc in something other than
13:45:10 7	asked you to assist in determining whether cosmetic	13:47:36 7	air, like in I'm sorry, strike that.
13:45:13	talc has asbestos?	13:47:37	Does the NVLA have an accreditation
13:45:15	MR. CIRSCH: Object to form.	13:47:41 9	standard for finding asbestos in something other than
13:45:16 10	THE WITNESS: No.	13:47:43 10	air, like in talc?
13:45:18 11	Q. (By Mr. Chachkes) Has any federal court	13:47:44 11	MR. CIRSCH: Object to form.
13:45:20 12	ever said that your methodology for finding talc	13:47:45 12	THE WITNESS: Well, they accredited to the
13:45:23 13	in asbestos in talc passes Daubert standards?	13:47:48 13	EPA 600/R-93 PLM method. That's not specific
13:45:30 14	A. I'm not sure I've had a Daubert standard	13:47:53 14	for talc. It's building materials.
13:45:32 15	in federal court yet. As for state court, I think	13:47:56 15	Q. (By Mr. Chachkes) And do they accredit
13:45:36 16	there's been seven, six or seven challenges.	13:47:58 16	you for methodology or something else?
13:45:39 17	Q. So my question is about federal court.	13:48:01 17	<b>A.</b> To be able to perform the analysis.
13:45:41 18	Has any federal court certified you under Daubert	13:48:04 18	Q. Meaning what?
13:45:43 19	standards for finding asbestos in talc?	13:48:06 19	A. Meaning if you we have round-robins
13:45:45 <b>20</b>	MR. CIRSCH: Object to form.	13:48:10 20	that you can adequately identify products that have a
13:45:46 <b>21</b>	THE WITNESS: As I just stated, I don't	13:48:14 <b>21</b>	certain concentration of asbestos in it that you
13:45:48 <b>22</b>	believe I've been in federal court yet other	13:48:16 <b>22</b>	would routinely see for building products.
13:45:50 23	than this one for where any Daubert	13:48:18 23	Q. Has NVLA ever accredited you specifically
13:45:56 <b>24</b>	challenges would arise.	13:48:21 <b>24</b>	for finding talc in asbestos?
13:45:57 <b>25</b>	<b>Q.</b> (By Mr. Chachkes) Has your methodology	13:48:24 <b>25</b>	<b>A.</b> I think, as I've already stated, they
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	114		116
13:45:59 <b>1</b>	for finding asbestos in talc ever been published in a	13:48:26 <b>1</b>	don't have a previous matrix, meaning what is the
13:46:04 <b>2</b>	peer-review journal or literature otherwise?	13:48:29 <b>2</b>	asbestos in. They go by the EPA 600/R-93 method for
13:46:05	MR. CIRSCH: Object to form.	13:48:36 3	analysis of bulk samples, typically building material
13:46:06 4	THE WITNESS: Well, it's not my method,	13:48:40 4	bulk samples for asbestos.
13:46:08 5	and the Blount method by PLM has been published	13:48:41 5	<b>Q.</b> So the NVLA, did they actually have
13:46:13 6	and the ISO 22262-2 is an international	13:48:44 6	someone come to your lab and do this accreditation?
13:46:16 7	standard. So it's not my method; it's standard	13:48:46 7	A. Yes.
13:46:20	protocols for doing the method.	13:48:46 8	Q. Okay. When that person came to your lab
13:46:21 9	Q. (By Mr. Chachkes) Is all your analysis	13:48:47 9	for the accreditation, did they ask to see your
13:46:23 10	for all your analysis of cosmetic talc for	13:48:51 10	techniques and methodologies for finding asbestos in
13:46:27 11	asbestos been for and sponsored by plaintiffs'	13:48:53 <b>11</b> 13:48:54 <b>12</b>	talc?
13:46:30 12	lawyers?		MR. CIRSCH: Object to form.
13:46:31 <b>13</b> 13:46:31 <b>14</b>	A. Yes.  O You mentioned the NV/I A. What is that?	13:48:55 <b>13</b> 13:48:57 <b>14</b>	THE WITNESS: Again, they don't say talc
13:46:31 14	<ul><li>Q. You mentioned the NVLA. What is that?</li><li>A. National Voluntary Laboratory</li></ul>	13:48:57 <b>14</b> 13:48:58 <b>15</b>	and they don't say any particular thing. It's just your overall methodology for performing the
13:46:36 15	A. National Voluntary Laboratory     Accreditation Program for the determination of	13:48:58 <b>15</b> 13:49:01 <b>16</b>	analysis. And usually the auditor will bring
13:46:41 17	asbestos in air samples by TEM and bulk analysis.	13:49:01 17	samples and have the analyst be able to
13:46:42 17	Q. Does the NVLA have an accreditation for	13:49:07 17	determine the type and the estimated weight
13:46:52 19	finding asbestos in talc?	13:49:14 19	percent of what's in the sample.
13:46:54 <b>20</b>	<b>A.</b> It's hard to say because they don't really	13:49:14 13	Q. (By Mr. Chachkes) Okay. So the samples
13:47:01 21	dictate what the matrix is.	13:49:18 21	that the NVLA brought for you to analyze for your
13:47:04 22	Q. When you say matrix, what do you mean by	13:49:22 22	accreditation were not talc samples; correct?
13:47:06 23	that?	13:49:25 23	A. I don't believe so, no.
13:47:06 <b>24</b>	<b>A.</b> Well, it's just asbestos in materials.	13:49:25 <b>24</b>	Q. They were just straight-up samples of
13:47:09 <b>25</b>	I'm not sure they have a specific one for talc or a	13:49:28 <b>25</b>	different kinds of asbestos; right?
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	Case 3:16-md-02738-MAS-RLS Documer	t 33014	-10 Filed 07/23/24 Page 9 of 14
16:30:14 <b>1</b>	photomicrograph it's close to make sure.	221691	L
	, , ,	16:32:49 <b>1</b>	
	<b>Q.</b> (By Mr. Chachkes) So you use visual inspection through the TEM to determine morphology?		<ul><li>Q. Yeah. I'll just direct your attention to</li><li>7.2 on page 22.</li></ul>
			, ,
.0.00.22	MR. CIRSCH: Object to form.  THE WITNESS: With the counting rules,	_	So there's a section on page 22 which has the heading Morphology; correct?
	that is correct.	16:33:26 <b>5</b> 16:33:28 <b>6</b>	<b>A.</b> That is correct. 7.2.3.7.1. I'm
16:30:26 <b>7</b>	Q. (By Mr. Chachkes) Okay. Well, it doesn't	16:33:32 7	surprised you didn't know that.
16:30:29	matter what the counting rules are. If you want to	16:33:34	Q. I did, actually.
16:30:32	look at if you want to just see the morphology,	16:33:36	And the only heading, as far as you know,
16:30:34 10	you use visual inspection?	16:33:41 10	in the ISO 22262 parts that actually says morphology
16:30:36 11	MR. CIRSCH: Object to form.	16:33:47 11	is this one? Or do you not know? I don't want to
16:30:36 12	THE WITNESS: The first thing we do is	16:33:51 12	spend all day on that one.
16:30:38 13	look at it and if it has parallel sides and does	16:33:52 13	MR. CIRSCH: Form.
16:30:42 14	it meet the counting rules where this is an	16:33:53 14	THE WITNESS: Well, this is a PLM
16:30:47 15	elongated particle, that deserves further	16:33:54 15	analysis. This is not TEM analysis. And ISO
16:30:51 16	examination.	16:33:56 16	has their PLM analysis setup, and these are the
16:30:51 17	Q. (By Mr. Chachkes) Can you tell me where	16:34:01 17	counting rules of what you do when you're
16:30:53 18	in ISO 22262 it provides directs you to look at	16:34:03 18	analyzing under a polarized light microscope
16:31:01 19	morphology under TEM?	16:34:05 19	versus a transmission electron microscope.
16:31:03 20	A. I did. I gave you the ISO standard for	16:34:07 <b>20</b>	Q. (By Mr. Chachkes) Did you use PLM to
16:31:06 21	TEM and indirect prep, and in order to determine what	16:34:12 21	identify the morphology of the fibers you found in
16:31:11 22	your weight percent is, you have to determine if it	16:34:15 <b>22</b>	the MDL?
16:31:14 23	is parallel sides, greater than .5 micrometers in	16:34:16 23	MR. CIRSCH: Object to form.
16:31:17 24	length, and so on and so forth.	16:34:19 24	THE WITNESS: Well, that's worded and I
16:31:19 <b>25</b>	Not all methods replicate previous	16:34:20 <b>25</b>	apologize. That's worded poorly.
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	218		220
16:31:22 1	methods. ISO 22262-2 does not put the entire	16:34:22 1	<b>220</b> For our ISO 22262-1 PLM analysis, yes. We
16:31:22 <b>1</b> 16:31:28 <b>2</b>		16:34:22 <b>1</b> 16:34:28 <b>2</b>	
	methods. ISO 22262-2 does not put the entire		For our ISO 22262-1 PLM analysis, yes. We
16:31:28 2	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the	16:34:28 2	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated
16:31:28 <b>2</b> 16:31:30 <b>3</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do	16:34:28 <b>2</b> 16:34:32 <b>3</b>	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in
16:31:28 <b>2</b> 16:31:30 <b>3</b> 16:31:36 <b>4</b> 16:31:36 <b>5</b> 16:31:40 <b>6</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO	16:34:28 <b>2</b> 16:34:32 <b>3</b> 16:34:34 <b>4</b> 16:34:37 <b>5</b> 16:34:43 <b>6</b>	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles
16:31:28 <b>2</b> 16:31:30 <b>3</b> 16:31:36 <b>4</b> 16:31:36 <b>5</b> 16:31:40 <b>6</b> 16:31:44 <b>7</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection	16:34:28 <b>2</b> 16:34:32 <b>3</b> 16:34:34 <b>4</b> 16:34:37 <b>5</b> 16:34:43 <b>6</b> 16:34:49 <b>7</b>	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio
16:31:28 <b>2</b> 16:31:30 <b>3</b> 16:31:36 <b>4</b> 16:31:36 <b>5</b> 16:31:40 <b>6</b> 16:31:44 <b>7</b> 16:31:49 <b>8</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?	16:34:28	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer
16:31:28 <b>2</b> 16:31:30 <b>3</b> 16:31:36 <b>4</b> 16:31:36 <b>5</b> 16:31:40 <b>6</b> 16:31:44 <b>7</b> 16:31:49 <b>8</b> 16:31:52 <b>9</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?  MR. CIRSCH: Object to form.	16:34:28 <b>2</b> 16:34:32 <b>3</b> 16:34:34 <b>4</b> 16:34:37 <b>5</b> 16:34:43 <b>6</b> 16:34:49 <b>7</b> 16:34:53 <b>8</b> 16:34:56 <b>9</b>	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer in length were counted as regulated asbestos fibers
16:31:28 <b>2</b> 16:31:30 <b>3</b> 16:31:36 <b>4</b> 16:31:36 <b>5</b> 16:31:40 <b>6</b> 16:31:44 <b>7</b> 16:31:49 <b>8</b> 16:31:52 <b>9</b> 16:31:53 <b>10</b>	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?  MR. CIRSCH: Object to form.  THE WITNESS: Well, per se it doesn't	16:34:28 2 16:34:32 3 16:34:34 4 16:34:37 5 16:34:43 6 16:34:49 7 16:34:53 8 16:34:56 9 16:35:00 10	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer in length were counted as regulated asbestos fibers and bundles per the standard TEM counting rules
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16:31:28	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?  MR. CIRSCH: Object to form.  THE WITNESS: Well, per se it doesn't replicate the entire procedure. That's how these standards work.  Once it has a document, in this case, another ISO document that lays out all the procedures and practices for how to identify regulated asbestos, it just goes back to that.  Q. (By Mr. Chachkes) So  A. ASTM is the same way, and the definition of asbestos fibers in ASTM has another document that tells you all the different definitions. One builds	16:34:28 2 16:34:32 3 16:34:34 4 16:34:37 5 16:34:43 6 16:34:49 7 16:34:53 8 16:34:56 9 16:35:00 10 16:35:03 11 16:35:03 11 16:35:08 13 16:35:08 14 16:35:12 15 16:35:17 17 16:35:27 18	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer in length were counted as regulated asbestos fibers and bundles per the standard TEM counting rules described by and then you cite six methods. Are you with me so far?  A. I am. Q. Which is the method you actually use? A. Well, can't really point to any one method because they all have the same counting rules. Q. Okay. A. What page was that? Q. I was just talking about page 12 of your January 15.
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16:31:28	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?  MR. CIRSCH: Object to form.  THE WITNESS: Well, per se it doesn't replicate the entire procedure. That's how these standards work.  Once it has a document, in this case, another ISO document that lays out all the procedures and practices for how to identify regulated asbestos, it just goes back to that.  Q. (By Mr. Chachkes) So  A. ASTM is the same way, and the definition of asbestos fibers in ASTM has another document that tells you all the different definitions. One builds on the other.  Q. Okay. Just looking at 22262, there is a	16:34:28 2 16:34:32 3 16:34:34 4 16:34:37 5 16:34:49 7 16:34:53 8 16:34:56 9 16:35:00 10 16:35:00 11 16:35:07 12 16:35:08 13 16:35:08 14 16:35:15 16 16:35:17 17 16:35:27 18 16:35:28 19 16:35:32 21 16:35:32 21 16:35:35 22	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer in length were counted as regulated asbestos fibers and bundles per the standard TEM counting rules described by and then you cite six methods. Are you with me so far?  A. I am.  Q. Which is the method you actually use?  A. Well, can't really point to any one method because they all have the same counting rules.  Q. Okay.  A. What page was that?  Q. I was just talking about page 12 of your January 15.  A. I think it states that.  This is for, again, TEM. And every one of
16:31:28 2 16:31:30 3 16:31:36 4 16:31:36 5 16:31:40 6 16:31:44 7 16:31:49 8 16:31:52 9 16:31:53 10 16:31:55 11 16:31:57 12 16:31:59 13 16:32:03 14 16:32:03 14 16:32:13 17 16:32:14 18 16:32:14 18 16:32:17 19 16:32:26 20 16:32:26 21 16:32:26 22	methods. ISO 22262-2 does not put the entire counting protocol in there. It directs you to the TEM method where you have all these methodology to do that.  Q. Okay. So it's not, per se, in 22262, but you're saying there's a reference to another ISO standard which you say requires visual inspection under TEM to determine morphology?  MR. CIRSCH: Object to form.  THE WITNESS: Well, per se it doesn't replicate the entire procedure. That's how these standards work.  Once it has a document, in this case, another ISO document that lays out all the procedures and practices for how to identify regulated asbestos, it just goes back to that.  Q. (By Mr. Chachkes) So  A. ASTM is the same way, and the definition of asbestos fibers in ASTM has another document that tells you all the different definitions. One builds on the other.  Q. Okay. Just looking at 22262, there is a section in there under part 1 that is labeled	16:34:28 2 16:34:32 3 16:34:34 4 16:34:37 5 16:34:49 7 16:34:53 8 16:34:56 9 16:35:00 10 16:35:00 11 16:35:07 12 16:35:08 13 16:35:08 14 16:35:12 15 16:35:15 16 16:35:17 17 16:35:27 18 16:35:28 19 16:35:31 20 16:35:32 21 16:35:35 22 16:35:45 23	For our ISO 22262-1 PLM analysis, yes. We went through, and each of these regulated asbestos fibers that we have in there in pictures follow this morphology.  Q. (By Mr. Chachkes) Okay. In your reports you write on page 12, Amphibole fibers or bundles with substantially parallel sides and an aspect ratio of 5-to-1 or greater and at least half a micrometer in length were counted as regulated asbestos fibers and bundles per the standard TEM counting rules described by and then you cite six methods. Are you with me so far?  A. I am.  Q. Which is the method you actually use?  A. Well, can't really point to any one method because they all have the same counting rules.  Q. Okay.  A. What page was that?  Q. I was just talking about page 12 of your January 15.  A. I think it states that.  This is for, again, TEM. And every one of those TEM methods have those counting rules, so I

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16:35:51 <b>1</b>	PageID:	221692	
•	next exhibit ISO 13794. We are on Exhibit 21.	16:39:03 1	THE WITNESS: Well, it is regulatory. If
16:36:02 2	(Defendants' Exhibit 21 was marked for	16:39:05 2	it even though it cannot discriminate, you
16:36:25 <b>3</b>	identification.)	16:39:07 3	have to count it, and it is a regulated asbestos
_	Q. (By Mr. Chachkes) So we spoke a little	16:39:10 <b>4</b> 16:39:14 <b>5</b>	fiber if you decide it's asbestiform or not. It
16:36:26 <b>5</b>	bit before about what's been marked as Exhibit 21;	_	does not allow you to discriminate between the two as long as it meets the counting rules. It
_	right?	_	
0	A. Yes, sir, we have.	16:39:18 <b>/</b>	is regulated.
16:36:32	Q. Okay. And going to the seventh page in	_	Q. (By Mr. Chachkes) Okay.
16:36:41 9	section 1, Scope. Section we're here.	16:39:19 9	<b>A.</b> Now, we can argue over back and forth if
16:36:55 <b>10</b> 16:36:59 <b>11</b>	A. What page? 7? Did you say 7?	16:39:21 <b>10</b> 16:39:24 <b>11</b>	it is asbestiform or not. But make no mistake, it is
16:36:59 11	<ul><li>Q. Actually, strike that.</li><li>I'm sorry. So it was the seventh page of</li></ul>	16:39:24 11	a regulated asbestos fiber if it meets the counting rules.
16:37:00 12	the PDF, so let's strike that and start again.	16:39:27 12	Q. Okay. So you're saying that something can
16:37:05 13	Going to what's numbered in the exhibit as	16:39:28 13	meet the counting rules, be regulated, but it might
16:37:09 14	page 1, going to the heading 1, this is Scope; right?	16:39:34 15	be the non you might be counting nonasbestos
16:37:17 16	It's the scope of the ISO standard?	16:39:34 16	analogs?
16:37:17 <b>16</b> 16:37:19 <b>17</b>	A. Correct.	16:39:37 16	MR. CIRSCH: Object to form.
16:37:19 <b>17</b> 16:37:20 <b>18</b>	Q. Okay. Subsection 1.1, which is substance	16:39:38 17	THE WITNESS: It's not nonasbestos.
16:37:20 10	determined; do you see that?	16:39:39 10	It's
16:37:24 <b>19</b> 16:37:25 <b>20</b>	A. I do.	16:39:42 19	Q. (By Mr. Chachkes) I'm using the phrase
16:37:26 21	Q. And then you see at the last sentence, The	16:39:44 21	in
16:37:30 22	method cannot discriminate between individual fibers	16:39:44 22	A. It is not nonasbestos. If it meets all
16:37:33 23	of asbestos and nonasbestos analogs of the same	16:39:46 23	the counting rules, it's a regulated asbestos fiber.
16:37:36 24	amphibole mineral.	16:39:49 <b>24</b>	That's my position on that.
16:37:36 <b>25</b>	Do you see that?	16:39:50 <b>25</b>	Q. Okay. In this last sentence of 1.1, it
	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com		Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	222		224
16:37:37 <b>1</b>	<b>222 A.</b> I do.	16:39:55 1	<b>224</b> makes a distinction between asbestos and nonasbestos
16:37:37 <b>1</b> 16:37:37 <b>2</b>		16:39:55 <b>1</b> 16:39:57 <b>2</b>	
_	A. I do.	2	makes a distinction between asbestos and nonasbestos
16:37:37 2	<ul><li>A. I do.</li><li>Q. Do you agree with ISO 13794 that this</li></ul>	16:39:57	makes a distinction between asbestos and nonasbestos analogs; do you see that?
16:37:37 <b>2</b> 16:37:43 <b>3</b>	<ul><li>A. I do.</li><li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers</li></ul>	16:39:58 <b>3</b>	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that.
16:37:43 <b>3</b> 16:37:46 <b>4</b>	<ul> <li>A. I do.</li> <li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers of the asbestos and nonasbestos analogs of the same</li> </ul>	16:39:57 <b>2</b> 16:39:58 <b>3</b> 16:39:59 <b>4</b>	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that. Q. That's black and white; right?
16:37:37 <b>2</b> 16:37:43 <b>3</b> 16:37:46 <b>4</b> 16:37:50 <b>5</b>	<ul> <li>A. I do.</li> <li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers of the asbestos and nonasbestos analogs of the same amphibole material?</li> </ul>	16:39:58 <b>3</b> 16:39:59 <b>4</b> 16:40:00 <b>5</b>	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that.  Q. That's black and white; right?  MR. CIRSCH: Object.
16:37:37 <b>2</b> 16:37:43 <b>3</b> 16:37:46 <b>4</b> 16:37:50 <b>5</b> 16:37:50 <b>6</b>	<ul> <li>A. I do.</li> <li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers of the asbestos and nonasbestos analogs of the same amphibole material?</li> <li>A. Yes and no. If you're analyzing samples</li> </ul>	16:39:57 <b>2</b> 16:39:58 <b>3</b> 16:39:59 <b>4</b> 16:40:00 <b>5</b> 16:40:01 <b>6</b>	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that. Q. That's black and white; right?  MR. CIRSCH: Object.  THE WITNESS: That's what it states.
16:37:37 <b>2</b> 16:37:43 <b>3</b> 16:37:46 <b>4</b> 16:37:50 <b>5</b> 16:37:50 <b>6</b> 16:37:56 <b>7</b>	<ul> <li>A. I do.</li> <li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers of the asbestos and nonasbestos analogs of the same amphibole material?</li> <li>A. Yes and no. If you're analyzing samples over and over from the same source and you're seeing</li> </ul>	16:39:57 <b>2</b> 16:39:58 <b>3</b> 16:39:59 <b>4</b> 16:40:00 <b>5</b> 16:40:01 <b>6</b> 16:40:02 <b>7</b>	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that. Q. That's black and white; right?  MR. CIRSCH: Object.  THE WITNESS: That's what it states. Q. (By Mr. Chachkes) Okay. So tell me what
16:37:37 <b>2</b> 16:37:43 <b>3</b> 16:37:46 <b>4</b> 16:37:50 <b>5</b> 16:37:50 <b>6</b> 16:37:56 <b>7</b> 16:38:01 <b>8</b> 16:38:08 <b>9</b> 16:38:11 <b>10</b>	<ul> <li>A. I do.</li> <li>Q. Do you agree with ISO 13794 that this method cannot discriminate between individual fibers of the asbestos and nonasbestos analogs of the same amphibole material?</li> <li>A. Yes and no. If you're analyzing samples over and over from the same source and you're seeing both what people will clearly say is asbestiform</li> </ul>	16:39:57 2 16:39:58 3 16:39:59 4 16:40:00 5 16:40:01 6 16:40:02 7 16:40:04 8 16:40:09 9 16:40:09 10	makes a distinction between asbestos and nonasbestos analogs; do you see that?  A. I see that. Q. That's black and white; right? MR. CIRSCH: Object. THE WITNESS: That's what it states. Q. (By Mr. Chachkes) Okay. So tell me what asbestos versus nonasbestos analogs mean in ISO 13794. MR. CIRSCH: Object to form.
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<del>Filed 07/23/24</del> <del>ocume</del>n Page 11 of PageID 221693 1 think that's not -- because the aspect ratio 17:28:56 Q. Well, let's not get ahead of ourselves. 17:26:38 obviously is greater than 5-to-1; right? 2 2 Now, in the third row, do you have enough 17:26:40 17:29:00 3 3 Well, I would take a look at it and see information from these pictures to see whether 17:29:04 17:26:41 4 parallel sides, is that multiple fibers. I don't 17:29:07 4 they're bundles or fibers? 17:26:43 know what magnification this is at. 5 5 No. It's too out of focus 17:26:48 17:29:09 6 6 Q. So again, I would prefer to be looking at Okav. 17:26:50 7 something under a TEM than just play 17:29:12 7 I would -- looks like you have dark field 17:26:51 guess-what-this-is 8 8 here. I would have to see this in the TEM. 17:26:54 17:29:15 9 Okay. So it's possible what you're 9 Okay. In the second row, far left, do you 17:29:17 17:26:54 10 looking at there which has an aspect ratio of -- it's 17:29:21 10 have enough -- does it appear to you whether there 17:26:56 greater than 5-to-1; right? are bundles or fibers? 11 17:29:24 11 17:27:00 17:27:01 12 That's correct. 17:29:25 12 A. No, you can't make out. Most of these are 13 Q. Okay. It's possible that that's not --17:29:27 13 just particles. And I would have to be looking at 17:27:02 that's nonasbestiform if it doesn't have parallel this one that has parallel sides. But I would have 17:29:31 14 17:27:04 15 sides; is that true? to be determining if I could see individual fibers in 17:29:36 15 17:27:08 17:27:09 16 Α. Again, this is an optical microscopy 17:29:38 16 it or not 17:27:11 17 picture. So unless I was looking at this under the 17:29:39 17 Q. In the fourth row, second from the bottom, 18 TEM, but certainly has parallel sides. I don't know 17:29:46 18 are these asbestiform? 17:27:14 17:27:17 19 the width. I can't really make out the micron bar, I 17:29:48 19 Α. Maybe. 17:29:50 **20** 17:27:21 20 don't know the magnification. What additional information would you need O 17:27:22 21 17:29:53 21 So you'll have to get some other expert to to determine that? 17:27:25 **22** take a look at it, if he's willing to opine what that 17:29:53 22 Α. I need to be looking at it in the TEM 17:27:29 23 17:29:58 23 is versus the counting rules in the TEM. or -- so that I can make a determination. The size, 17:27:32 24 17:30:02 24 the magnification. In the second row, assuming that 17:27:36 **25** 17:30:08 **25** everything in the second row is amphibole, would you Do you have enough information in the Q. Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com 250 252 1 call those asbestiform or not? 1 second -- in that second-to-last row, those three 17:30:10 17:27:40 2 Again, I'm looking at an optical 17:30:13 2 pictures, to determine whether that's asbestiform? 17:27:44 microscopy picture. We've got a bundle that -- I 3 I wouldn't make that call either way 17:27:51 17:30:15 4 mean, I can't look at the micron bar. Possibly just 4 unless I could be looking at it under the TEM. It 17:30:19 17:27:58 5 the one in the middle because you can see individual 5 looks like very little magnification. And I 17:28:01 17:30:22 6 fibrils 6 apologize, but they're fairly poor photographs. 17:28:03 17:30:25 7 7 Q. Okay. If you saw that under your TEM, Okay. In the last row, same question. In 17:28:04 8 would you label that as asbestos? 17:30:31 8 those three pictures at the very bottom of 17:28:07 9 Exhibit 22, are those -- see the single fibers -- the 9 Well, I'm not looking at it under TEM. So 17:30:34 17:28:08 10 17:30:37 10 single item in the middle, would you call that if it's under an optical microscopy method and it 17:28:13 11 meets the definition, it's got parallel sides, it 17:30:40 11 asbestiform? 17:28:16 17:30:41 12 17:28:20 12 looks like it has multiple fibers in the bundle, that A. It has parallel sides. I can't see 13 by definition is asbestiform. 17:30:48 13 individual fibers. But I would call that a regulated 17:28:23 14 Q. And why do you say it looks like it has 17:30:52 14 asbestos fiber or bundle, maybe. 17:28:25 17:28:28 15 multiple fibers in the bundle? 17:30:55 15 Again, I would need to be looking at the 17:28:29 16 17:30:57 16 Δ Because I can see them. TEM analysis of these or at least better photographs. 17 Okay. You're referring to the lines that 17:31:01 17 Okay. So the bottom six are all TEM 17:28:30 go from the northwest towards the southeast starting 17:28:34 18 17:31:08 18 photomicrographs from you? You realize that; right? 19 in the top? 17:31:12 19 MR. CIRSCH: Object to form. 17:28:36 17:28:37 20 Α. Yes sir. 17:31:13 20 THE WITNESS: And that's fine. If you 17:28:37 **21** 17:31:14 21 Q. Okay. In the third row, assuming those tell me which ones they are, at least I can get 17:28:40 22 are amphiboles, do you have enough information to 17:31:17 22 better images. 17:28:44 23 determine whether they're asbestiform? 17:31:17 23 (By Mr. Chachkes) These are the images 17:31:20 24 you provided to us; right? 17:28:46 24 I can't really see what we have here under 17:28:50 **25** 17:31:22 25 these. And I'm assuming the fourth and five row --Well, when we provide the book, we provide Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com

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17:36:17 <b>1</b>	THE WITNESS: I don't have any expectation	221694
17:36:19 2	of what we're going to find or what we expect.	the four people are because there are some folks
17:36:21 3	We just count using the protocols and make the	who started doing, you know, analysis now may
17:36:25 <b>4</b> 17:36:27 <b>5</b>	decision on what morphology it is.	not have been doing analysis then, and there's some folks doing analysis then that are not
•	Q. (By Mr. Chachkes) Okay. Have you	,
17:36:28 6	testified that the modified Blount TEM method you	doing analysis now. It's just easy to look in
17:36:31 7	employed in your March 2018 report is materially	the count sheets and see if they're the same or
17:36:35 <b>8</b> 17:36:37 <b>9</b>	identical to the ISO 22262?	17:39:08 <b>8</b> not. 17:39:08 <b>9 Q.</b> (By Mr. Chachkes) Is there additional
	A. I don't think I it's not identical.	, , , , , , , , , , , , , , , , , , , ,
17:36:43 10	The old Blount report uses a different heavy density	data concerning the samples upon which you reported
17:36:47 <b>11</b> 17:36:52 <b>12</b>	liquid separation. But the ISO, we can use the same	17:39:15 <b>11</b> for TEM that is in a file somewhere in your 17:39:20 <b>12</b> laboratory but not printed out and not produced?
17:36:52 <b>12</b> 17:36:59 <b>13</b>	spin rate, same time for rpm and spin rate.  But the difference is the even the old	
17:36:59 13	Blount is the same. And that's what's interesting	17:39:22 <b>13 A.</b> All the data for these particular samples
17:37:03 14	9	
17:37:06 15	about the ISO 22262-2, it gives you the leeway to use whatever you need to use. And the only thing it	17:39:25 <b>15 Q.</b> Okay. Was there any data generated in 17:39:28 <b>16</b> connection with the TEM analysis in this case that
17:37:11 16		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
17:37:16 <b>17</b> 17:37:21 <b>18</b>	really specifies is the density of the heavy liquid. <b>Q.</b> You used the Blount TEM method in your	,
17:37:21 10	March 2018 report; correct?	17:39:32 <b>18 A.</b> No, not that I'm aware of. 17:39:34 <b>19 Q.</b> You personally have not conducted any of
17:37:23 19	A. Correct.	17.39:37 <b>20</b> the PLM testing included in your MDL report; correct?
17:37:24 20	Q. Was it materially identical to what's	17/39/30 21 A. That is correct.
17:37:24 21	mandated in ISO 22262?	17.3940 <b>21 Q.</b> Did you sit with your analysts as they did
17:37:28 22	A. ISO 22262 doesn't mandate any particular	17:39:42 23 the PLM testing?
17:37:35 24	conditions. So you can use whatever procedures you	17.39.45 <b>24 A.</b> I have probably looked in that optical
17:37:41 <b>25</b>	feel work the best. And that's because the spin	17.3947 <b>25</b> microscope 50 times in the last two months.
17.57.41 20	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
	258	260
17:37:45	258 rates and rpm does not really affect the overall	260  17:39:50  Q. So when you say you've looked in it.
17:37:45 <b>1</b>	258 rates and rpm does not really affect the overall concentrations, and it happened to be the same	17:39:50 <b>1 Q.</b> So when you say you've looked in it,
	rates and rpm does not really affect the overall	17:39:50 <b>1 Q</b> . So when you say you've looked in it,
17:37:48 2	rates and rpm does not really affect the overall concentrations, and it happened to be the same	17:39:50 <b>1 Q.</b> So when you say you've looked in it, 17:39:52 <b>2</b> you've looked in it while your analysts were testing
17:37:48 <b>2</b> 17:37:51 <b>3</b>	rates and rpm does not really affect the overall concentrations, and it happened to be the same density, liquid density.	17:39:50 1 Q. So when you say you've looked in it, 17:39:52 2 you've looked in it while your analysts were testing 17:39:58 3 MDL samples for the purposes of your current report?
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17:37:48 2 17:37:51 3 17:37:53 4 17:37:56 5 17:37:58 6 17:38:03 8 17:38:04 9 17:38:08 10 17:38:09 11 17:38:11 12 17:38:13 13 17:38:19 14 17:38:22 15 17:38:25 16 17:38:28 17 17:38:30 18 17:38:30 19 17:38:30 20 17:38:39 21 17:38:42 22 17:38:43 23	rates and rpm does not really affect the overall concentrations, and it happened to be the same density, liquid density.  Q. You've testified that the same four associates at MAS have conducted all of MAS's analysis of Johnson's Baby Powder in your reports going all the way back to 2017; is that correct?  MR. CIRSCH: Object to form.  THE WITNESS: We have some of the same people, yes.  Q. (By Mr. Chachkes) Okay. What about are they the same? Is it the same people who were doing analyzing Johnson Baby Powder in early 2017 as are doing it now?  A. You'll have to clarify that question.  Q. Well, there were four people doing analysis in the MDL report; right?  A. Correct.  Q. There are four people doing analysis in the reports that rely on research all the way back to analysis all the way back to 2017; correct?  A. I'd have to look at that.  Q. Okay. I'm asking is it the same four	17:39:50 1 Q. So when you say you've looked in it, 17:39:52 2 you've looked in it while your analysts were testing 17:39:58 3 MDL samples for the purposes of your current report? 4 A. Well, you can't both of you can't look 17:40:02 5 in the microscope at the same time. A lot of times 17:40:09 7 increase the sensitivity. But, no, I don't 17:40:19 8 personally do the PLM analysis. 17:40:14 9 Q. Yeah, but I'm trying to get the sense of 17:40:16 10 were you actively involved looking through the 17:40:20 11 microscope or looking along with the other person 17:40:21 11 A. I have been active with the PLM 17:40:23 12 into the microscope for the PLM that's reported on in 17:40:25 13 the MDL? 14:40:26 15 microscopists looking at structures, looking at 17:40:38 16 different aspects of it, but ultimately he makes the 17:40:38 17:40:38 18 Q. Okay. So the decisions the opinions in 17:40:38 19 your report about whether the PLM was a positive for 18:40:40 18:40:40 19:40:
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17:37:48 2 17:37:51 3 17:37:53 4 17:37:56 5 17:37:58 6 17:38:03 8 17:38:04 9 17:38:08 10 17:38:09 11 17:38:11 12 17:38:13 13 17:38:19 14 17:38:22 15 17:38:25 16 17:38:28 17 17:38:30 18 17:38:30 19 17:38:30 20 17:38:39 21 17:38:42 22 17:38:43 23	rates and rpm does not really affect the overall concentrations, and it happened to be the same density, liquid density.  Q. You've testified that the same four associates at MAS have conducted all of MAS's analysis of Johnson's Baby Powder in your reports going all the way back to 2017; is that correct?  MR. CIRSCH: Object to form.  THE WITNESS: We have some of the same people, yes.  Q. (By Mr. Chachkes) Okay. What about are they the same? Is it the same people who were doing analyzing Johnson Baby Powder in early 2017 as are doing it now?  A. You'll have to clarify that question.  Q. Well, there were four people doing analysis in the MDL report; right?  A. Correct.  Q. There are four people doing analysis in the reports that rely on research all the way back to analysis all the way back to 2017; correct?  A. I'd have to look at that.  Q. Okay. I'm asking is it the same four	17:39:50 1 Q. So when you say you've looked in it, 17:39:52 2 you've looked in it while your analysts were testing 17:39:58 3 MDL samples for the purposes of your current report? 4 A. Well, you can't both of you can't look 17:40:02 5 in the microscope at the same time. A lot of times 17:40:09 7 increase the sensitivity. But, no, I don't 17:40:19 8 personally do the PLM analysis. 17:40:14 9 Q. Yeah, but I'm trying to get the sense of 17:40:16 10 were you actively involved looking through the 17:40:20 11 microscope or looking along with the other person 17:40:21 11 A. I have been active with the PLM 17:40:23 12 into the microscope for the PLM that's reported on in 17:40:25 13 the MDL? 14:40:26 15 microscopists looking at structures, looking at 17:40:38 16 different aspects of it, but ultimately he makes the 17:40:38 17:40:38 18 Q. Okay. So the decisions the opinions in 17:40:38 19 your report about whether the PLM was a positive for 18:40:40 18:40:40 19:40:

Case 3:16-md-02738-M	AS-RLS Document 3301	
17:41:00 <b>1</b> not an opinion.	<sup>261</sup> PageID: 22169	1 correct?
17:41:01 <b>2 Q.</b> (By Mr. Chachkes) Ok		<b>2 A.</b> Individual fibers, unless they have a
17:41:03 <b>3</b> conclusions of your analysts?	•	3 number of fibers in a bundle. But we don't see
17:41:05 <b>4 A.</b> Yes.		4 individual fibers. In fact, we haven't seen any
17:41:06 <b>5 Q.</b> Okay. You have perso		5 individual fiber in any of these analyses that we've
17:41:08 <b>6</b> talc sample for asbestos from sta	•	6 done. They've all been very large bundles.
17:41:10 <b>7</b> yourself?	17:43:09	7 Q. Is it unambiguously true that asbestos
17:41:11 <b>8 A.</b> That is correct.	17:43:19	particles must be at least 1/2 micrometer in the
17:41:11 <b>9 Q.</b> You're not trained in u	using PLM for the	smallest dimension to be visible under PLM?
17:41:14 <b>10</b> purposes of testing talc for asbe	stos? 17:43:23 <b>1</b>	<b>A.</b> That's what's stated. We never see
17:41:17 <b>11</b> MR. CIRSCH: Object t	to form. 17:43:25 <b>1</b>	1 individual fibers of any size. Everything that we
17:41:18 <b>12</b> THE WITNESS: I have	e not taken a PLM 17:43:30 <b>1</b>	2 have run across is these very large bundles that have
17:41:20 <b>13</b> course for asbestos.	17:43:33 <b>1</b>	3 multiple fibers in them.
17:41:20 <b>14 Q</b> . (By Mr. Chachkes) Yo	ou've not published 17:43:35 <b>1</b>	<b>Q</b> . But I'm talking about not what you're
17:41:25 <b>15</b> any PLM methodologies?	17:43:37 1	5 actually seeing, but this is a matter of the
17:41:27 <b>16 A.</b> No, sir. We're not u	using our 17:43:41 <b>1</b>	6 resolution.
17:41:29 <b>17</b> methodologies. We're using	the standard protocol 17:43:42 <b>1</b>	7 Must asbestos particles be at least 1/2
17:41:33 <b>18</b> methodologies. So if we wer	re to publish when we	8 micrometer in the smallest dimension to be visible
17:41:36 <b>19</b> publish this, we would be pul	blishing that this is the 17:43:49 1	9 under PLM?
17:41:39 <b>20</b> method we used. That's like	everybody else. 17:43:49 2	<b>A.</b> It may be visible, but it's hard to go
17:41:42 <b>21</b> Q. Have you published ar	ny PLM work testing	1 through the dispersion staining and everything
17:41:44 <b>22</b> for asbestos in any context?	17:43:55 <b>2</b> .	•
17:41:47 <b>23 A.</b> Yes.	17:43:57 <b>2</b>	So maybe theoretically that's possible,
17:41:51 <b>24</b> Q. What is it?	17:44:01 <b>2</b> -	but it's not something that's routinely seen, that I
17:41:52 <b>25 A.</b> Our gasket study, or	ur vermiculite studies, 17:44:04 <b>2</b>	5 know of.
Atlanta Reporters, Inc. 866-344-0459	·	Atlanta Reporters, Inc. 866-344-0459 www.atlanta-reporters.com
17.41:59 <b>1</b> our that have been publish	<b>262</b> ned. A number of papers 17:44:04	264  1 Q. Do you have the ability to detect asbestos
17:42:03 <b>2</b> are published where it's goin	, ,	2 fibers with a width of approximately .3 micrometers
,		, , , , , , , , , , , , , , , , , , ,
17:42:05 3 exposure. You usually have 1	to determine what the   17:44:13	3 by PLM?
17:42:08 <b>4</b> concentration of asbestos is		. '
		<b>4 A.</b> Again, it may be theoretically possible,
17.42:08 <b>4</b> concentration of asbestos is i	in the materials before 17:44:15 (17:44:19 )	<b>A.</b> Again, it may be theoretically possible,
17:42:08 <b>4</b> concentration of asbestos is in you publish that.	in the materials before 17:44:15 (17:44:19 in peer-reviewed 17:44:23 i	<b>A.</b> Again, it may be theoretically possible, but I'm not aware that it's routinely done. We've
17:42:08 <b>4</b> concentration of asbestos is in 17:42:11 <b>5</b> you publish that.  17:42:12 <b>6 Q.</b> Those are published in	in the materials before 17:44:15 17:44:15 17:44:15 17:44:23 17:44:25 17:44:25	<ul> <li>A. Again, it may be theoretically possible,</li> <li>but I'm not aware that it's routinely done. We've</li> <li>never seen any in the cosmetic talc.</li> </ul>
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